**Lesson 3 Reteach**

***Volume of Spheres***

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| A **sphere** is a set of all points in space that are a given distance from a given point.The volume *V* of a sphere with radius *r* is four thirds the product of π and the cube of the radius *r*.*V* = $\frac{4}{3}$*πr*3. |

**Example**

**Determine the volume of the sphere. Round to the nearest tenth.**



 *V =* $\frac{4}{3}$π*r*3 Volume of a sphere

 *V* = $\frac{4}{3}$ (π • 43) *r* = 4

 *V* ≈ 268.1 Simplify. Use a calculator.

 The volume is about 268.1 cubic feet.

**Exercises**

**Determine the volume of each sphere. Round to the nearest tenth.**

 **1. 2. 3.**







**4. 5. 6.**





